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DIRECTORATE OF  
INTELLIGENCE

## *Imagery Analysis Service Notes*

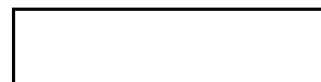
22 December 1967

Declass Review by NIMA / DoD



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This publication highlights significant or timely intelligence items derived from photography.

The interpretations in this publication represent preliminary views which are subject to modification in the light of further information and more complete analysis.

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Note to Recipients: Imagery Analysis Service Notes was not issued  
for the weeks ending 8 and 15 December. This  
issue covers the period 4 - 22 December.

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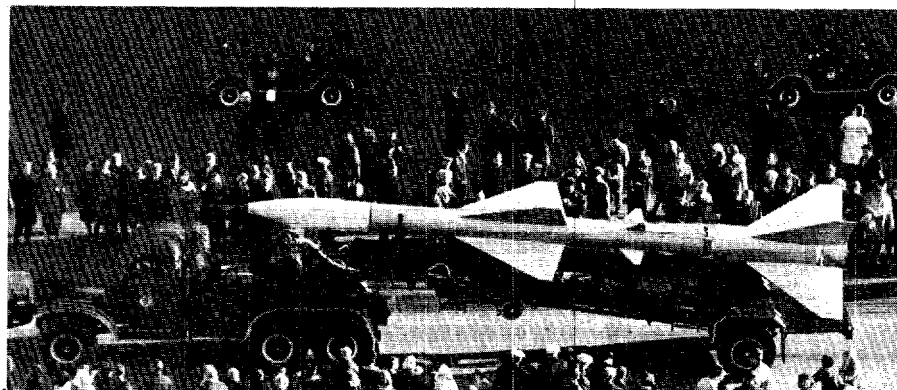


FIGURE 1. NEW CONFIGURATION GUIDELINE MISSILE,  
7 NOVEMBER 1967 MOSCOW PARADE.



FIGURE 2. MOD III GUIDELINE MISSILE, EAST BERLIN PARADE, MAY 1965.

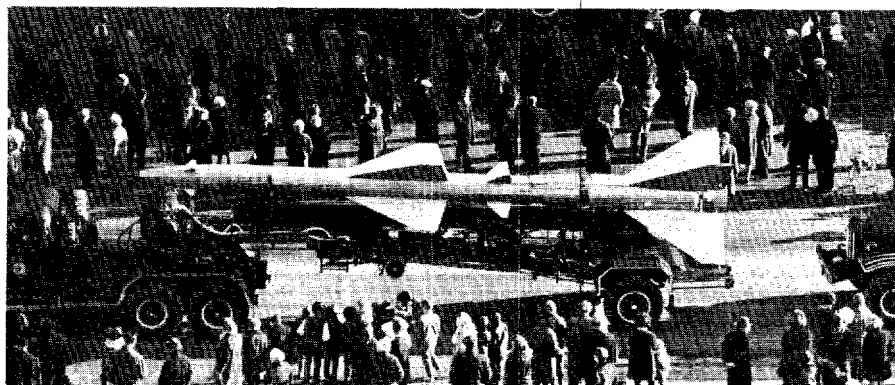


FIGURE 3. MOD I/II GUIDELINE, 7 NOVEMBER 1967, MOSCOW PARADE.

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USSRComparison of the New Guideline Missile with Earlier Models

During the 7 November 1967 Moscow Parade, the Soviets displayed a new configuration Guideline missile which was previously unknown to Western intelligence. Some obvious differences in appearance were immediately apparent between the new missile and both the MOD I/II Guideline and the more recent MOD III (see Figures 1-3). The new missile has an oversized white nose section, has no canards or visible fuzing antennas, has a lengthened fairing on the underside of the missile, and has a redesigned and differently placed yoke supporting the nose section.

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Several less obvious but very significant differences have been noted between the size of the new Guideline and the previous models (see the table below for some comparative dimensions). Although all three appear to have the same diameter, the sustainer section of the new missile is longer than it is on the earlier models. In addition, its wings are considerably larger than those of the MOD I/II and MOD III Guidelines.

An unusual feature of the new missile is the fact that its two upper wings, as the missile rests on its transporter, are of one size while its two lower wings are of a different size. The tips of the upper wings are apparently clipped, causing a longer tip chord and a shorter span across the wing. The tip chords of the upper wings each measure 1.02 feet long; those of the lower wings are each 0.70 feet long.

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### CHINA

#### Two Copper Smelters and a Refinery Newly Identified

Two copper smelters and a copper refinery have been newly identified 39 nautical miles (nm) northwest of Wu-wei, China. This brings to seven the number of smelters and to five the number of refineries known to exist in China to date. One smelter and the refinery are located at 38-30N 102-14E, approximately 3 nm east of an open pit and shaft mining area (Figure 5a). The second smelter is located at 38-30N 102-12E, adjacent to the above mining area (Figure 5b).

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The collocated smelter and refinery were first observed in the early stages of construction on [redacted] photography. An analysis of subsequent coverage [redacted] revealed both facilities apparently complete, but not in operation. This plant now consists of concentration, sintering, smelting, and refining facilities which are comparable in size to the other copper smelters and refineries identified in China. This plant will receive copper ore from the nearby open pit mine which went into operation [redacted]

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The smelter nearest to the mining area was first seen in operation on [redacted] photography and identified as ore concentration facilities. Ore is concentrated within the smelter; the concentration is the first step in producing blister copper at this facility. This smelter is smaller than other known Chinese smelters, possibly because it was constructed to process only ore obtained from shaft mines. It has been observed in operation on [redacted] photographic missions [redacted]

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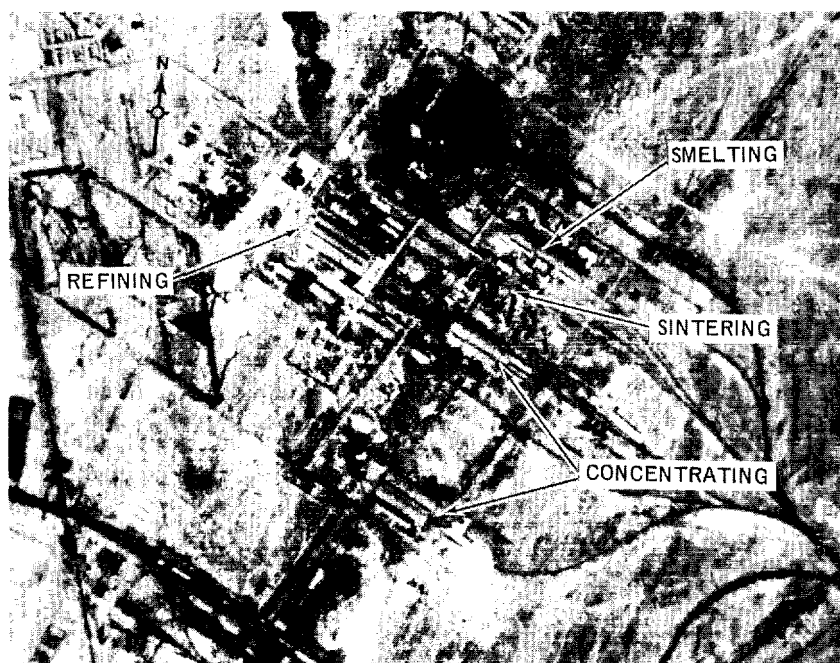


FIGURE 5a. SMELTER AND REFINERY, 38 - 30N 102 - 14E

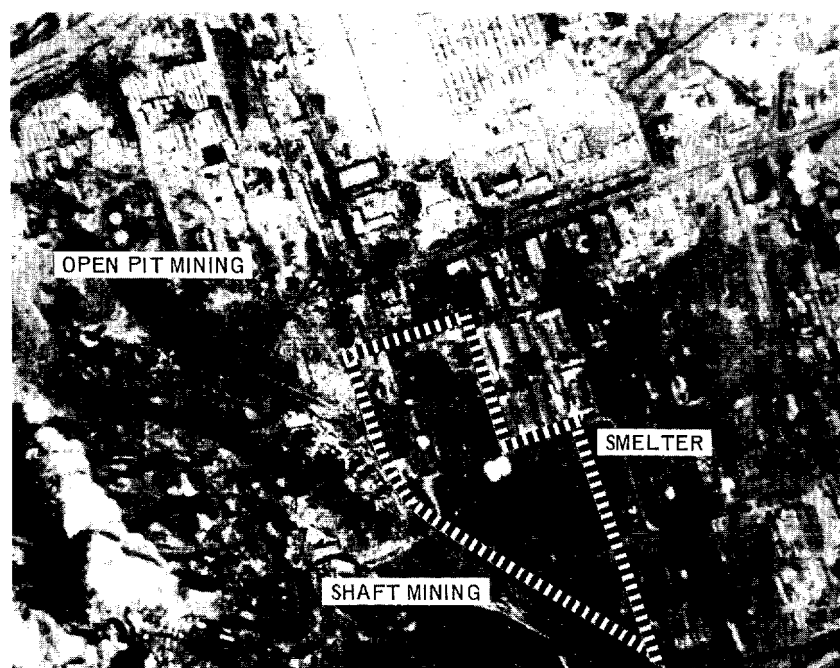


FIGURE 5b. SMELTER, 38 -30N 102 -12E

NEWLY IDENTIFIED COPPER SMELTING AND REFINING FACILITIES NEAR  
WU - WEI, CHINA

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1. IAR 83036, [redacted] Line Drawings of New Types of Soviet  
Submarines Observed [redacted] (TOP SECRET [redacted])

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2. IAR 83041 [redacted] Amur Shipyard 199, Komsomolsk, USSR,  
[redacted] (TOP SECRET [redacted])

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3. IAR 83042 [redacted] Amur Shipyard 199, Komsomolsk, USSR  
[redacted] (TOP SECRET [redacted])

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4. IAR 87002 [redacted] Failure of San-men Gorge Reservoir Project,  
China (TOP SECRET [redacted])

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